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## Patent Abstracts of Japan

PUBLICATION NUMBER : 05226704  
PUBLICATION DATE : 03-09-93

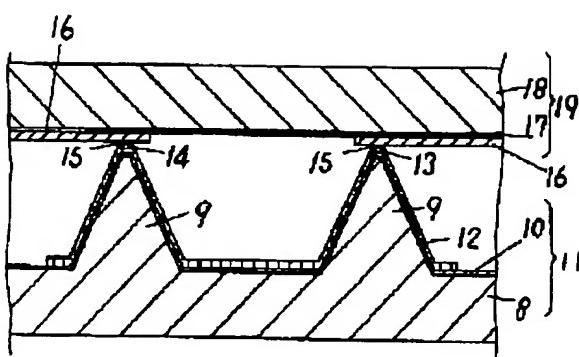
APPLICATION DATE : 10-02-92  
APPLICATION NUMBER : 04023503

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : GYOTEN HISAAKI;

INT.CL. : H01L 35/32 H01L 35/34

TITLE : THERMOELECTRIC DEVICE AND ITS  
MANUFACTURE



ABSTRACT : PURPOSE: To provide a small, light, and inexpensive thermoelectric device high in thermoelectric conversion efficiency and its manufacture.

CONSTITUTION: At least a pair of projections 9 are provided at one side of one insulating plate 11, and a patterned electrode film 12 is provided between a pair of projections 9, and a p-type thermoelectric semiconductor film 13, on the electrode film 12 at one top of the projections 9 in a pair, and an n-type thermoelectric semiconductor film 14, on the electrode film 12 on the other top, are provided, and counter electrodes 15, which form a pair, are provided on the p-type thermoelectric semiconductor film 13 and the n-type thermoelectric semiconductor 14, and a pair of lead electrode films 16 are provided for the counter electrode films 15, and a pair of lead electrodes 16 are provided on one side of the other insulating plate 19.

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